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(54) Title: METHOD OF PRODUCING COMB OR STAR COPOLYMERS USING EPOXY-FUNCTIONALIZED NITROXYLETHERS

(57) Abstract: The present invention provides a method of attaching a polymeric side chain differing in polarity and chemical structure from the backbone and forming a comb or star copolymer structure. In particular the process provides a method of polymerizing in a first step a polymer back bone from epoxy group containing monomers and in a second step polymerizing under controlled radical conditions a comb or star structure onto this back bone.

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# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 03/09410

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08F289/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	S. KOBATAKE, H.J. HARWOOD, R.P. QUIRK, D.B. PRIDDY: "Synthesis of Nitroxy-Functionalized polybutadiene by anionic polymerization using a nitroxy-functionalized terminator" MACROMOLECULES, vol. 30, 1997, pages 4238-4240, XP002262886 the whole document	14
X	WO 99 46261 A (FUSO FRANCESCO ;CIBA SC HOLDING AG (CH); WUNDERLICH WIEBKE (DE); R) 16 September 1999 (1999-09-16) the whole document	14

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☒ Further documents are listed in the continuation of box C.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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